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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/733,569 | 12/12/2003 | Choong-Jae Lee | P-0586 | 1640 |
| 34610 | 7590 | 04/05/2006 | EXAMINER | |
| FLESHNER & KIM, LLP | | | HAROON, ADEEL | |
| P.O. BOX 221200 | | | ART UNIT | |
| CHANTILLY, VA 20153 | | | PAPER NUMBER | |

2618

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|--|--|
| Office Action Summary | Application No. 10/733,569 | Applicant(s) LEE, CHOONG-JAE | |
| | Examiner Adeel Haroon | Art Unit 2618 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3-9, 11-23 rejected under 35 U.S.C. 102(e) as being anticipated by Noto et al. (U.S. 2004/0038703).

With respect to claim 1, Noto et al. disclose a folder type mobile terminal with an upper cover, element number 1, and lower cover, element number 2, wherein the upper cover and lower cover are configured to be attached so as to form a space there between (Paragraph 23). Noto et al. also disclose a display mounted in the space formed between the upper and lower covers (Paragraph 24). Noto et al. further disclose an impact dispersing mechanism, element numbers 5 and 6, formed at edges of the covers to disperse an impact (Paragraphs 29 and 30).

With respect to claim 3, Noto et al. disclose a first rib, element number 5, formed to produce a constant width at an edge of the upper cover (Paragraphs 29 and 33).

Noto et al. also disclose a second rib, element number 6, formed to protrude a constant width at an edge of the lower cover (Paragraph 30).

With respect to claim 4, Noto et al. disclose a guide protrusion formed at both edges of the upper cover, and a guide groove formed at both edges of the lower cover, wherein the guide protrusion and the guide groove are configured to properly align the upper and lower covers when assembled (Paragraph 30).

With respect to claims 5 and 6, Noto et al. shows in figure 1 the first and second rib having a constant cross-sectional area and are formed at the edges of the cover.

With respect to claims 7 and 8, Noto et al. disclose a constant gap there between the first and second ribs, which is narrower the gap formed between the upper cover and display (Paragraphs 29 and 30).

With respect to claim 9, Noto et al. disclose a folder type mobile terminal with a first cover, element number 1, configured to be attached to a second cover, element number 2, so as to form a space there between (Paragraph 23). Noto et al. also disclose a display mounted in the space formed between the covers (Paragraph 24). Noto et al. further disclose an impact dispersing mechanism, element numbers 5 and 6, formed at edges of the covers to disperse an impact (Paragraphs 29 and 30).

With respect to claim 11, Noto et al. disclose a first rib, element number 5, formed at an edge of the upper cover (Paragraphs 29 and 33). Noto et al. also disclose a second rib, element number 6, formed at an edge of the lower cover (Paragraph 30).

With respect to claim 12, Noto et al. disclose guide protrusion formed at an edge of the first cover, and a guide groove configured to correspond to the guide protrusion formed at an edge of the second cover (Paragraph 30).

With respect to claims 13 and 14, Noto et al. disclose a first gap of substantially constant height is formed between the first rib and the second rib when the first cover and the second cover are attached, and wherein a second gap of substantially constant height is formed between an upper surface of the display and a lower surface of the first cover when the first cover and the second cover are attached (Paragraphs 29, 30, and 32).

With respect to claims 15 and 16, Noto et al. disclose that the height of the first gap is reduced when an external force is applied and the height of the second gap remains greater than the height of the first gap (Paragraph 32).

With respect to claim 17, Noto et al. shows in figure 1 the first and second ribs are formed at the edges of the cover.

With respect to claim 18, Noto et al. disclose an impact dispersing device for a mobile terminal (Paragraph 1). Noto et al. disclose a first rib, element number 5, formed at an edge of a first housing, element number 1 (Paragraphs 23 and 29). Noto et al. disclose a second rib, element number 6, formed at an edge of a second housing, wherein the second housing is configured to be attached to the first housing to form a space there between (Paragraphs 23, 30, and 33). Noto et al. also disclose a display mounted in the space formed between the first housing and the second housing (Paragraph 24). Noto et al. disclose a first gap, G2, of substantially constant height

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formed between a surface of the first rib and a surface of the second rib and a second gap of substantially constant height formed between an upper surface of the display and a lower surface of the first housing, wherein the height of the second gap is greater than the height of the first gap when the first housing is attached to the second housing (Paragraphs 30 and 32).

With respect to claim 19, Noto et al. further disclose a LCD (Paragraph 24).

With respect to claim 20, Noto et al. teach that the height of the second gap remains greater than the height of the first gap when an external force is applied to the first housing (Paragraph 32).

With respect to claim 21, Noto et al. disclose guide protrusion formed at an edge of the first cover, and a guide groove configured to correspond to the guide protrusion formed at an edge of the second cover (Paragraph 30).

With respect to claim 22, Noto et al. shows in figure 1 the first and second rib having a constant cross-sectional area and are formed at the edges of the cover.

With respect to claim 23, Noto et al. disclose a folder type mobile terminal (Paragraph 1).

Claim Rejections - 35 USC § 103

3. Claims 2 and 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Noto et al. in view of Murray et al..(U.S. 6,011,699).

With respect to claims 2 and 10, the mobile terminal of Noto et al. is described above in the discussion of claims 1 and 9. Noto et al. does not specifically disclose a print circuit board. However, Murray et al. discloses a similar two cover folder type mobile terminal with a display, 346, mounted on a printed circuit board, 316, in the space formed between the two covers (Column 4, lines 36-43). Therefore, it would be obvious to one ordinary skill in the art at the time of the applicant's invention to include a printed circuit board as taught by Murray et al. in the Noto et al.'s mobile terminal in order to provide signals to the display.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nagai (U.S. 5,689,824) disclose a folder type mobile terminal.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adeel Haroon whose telephone number is (571) 272-7405. The examiner can normally be reached on Monday thru Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AH
3/30/06

Nguyen Vo
4/3/2006

NGUYEN T. VO
PRIMARY EXAMINER